

AMENDMENT TO THE CLAIMS

Claims 1-83 (cancelled)

84. (Currently amended) A fabric assembly comprising:

a flexible substrate having a top surface; and
a plurality of continuous, non-overlapping and
approximately planar and identical metal plates
having substantially uniform thickness of
approximately 2 to 5 mils, the plurality of metal
plates each having a bottom surface affixed to the
top surface of the flexible substrate and arrayed in
a pattern such that a plurality of approximately
linear gaps are defined between adjacent affixed
plates, wherein the gaps are approximately uniform
in width, and wherein the gap width is approximately
2 to 5 mils.

85. (Previously Presented) The fabric assembly of claim 84
wherein the plurality of plates comprise stainless steel.

86. (Previously Presented) The fabric assembly of claim 84 wherein
the substantially uniform thickness of the plurality of plates is
approximately 2 mils.

87. (Previously Presented) The fabric assembly of claim 84
wherein the plurality of plates are equilateral hexagons.

88. (cancelled)

89. (Previously Presented) The fabric assembly of claim 84
wherein the flexible substrate comprises non-woven polyurethane
and nylon synthetic leather.

90. (Previously Presented) The fabric assembly of claim 84 wherein the plate thickness is approximately equal to the gap width.

91. (Previously Presented) The fabric assembly of claim 84 further comprising an adhesive layer affixing the plurality of plates to the top surface of the flexible substrate.

92. (Previously Presented) The fabric assembly of claim 91 wherein the adhesive layer is polyurethane adhesive.

93. (Previously Presented) A fabric assembly comprising:

- a flexible substrate having a top surface;

- a plurality of polymeric resin plates having substantially uniform thickness of approximately 5 to 20 mils, the plurality of plates affixed to the top surface of the flexible substrate and arrayed in a pattern such that a plurality of continuous gaps are defined between adjacent plates, wherein the gaps are approximately uniform in width; and

- a wire mesh embedded in each plate and completely covered by the top surface by each plate.

94. (Previously Presented) The fabric assembly of claim 93 wherein the plate thickness is approximately 10 to 12 mils.

95. (Previously Presented) The fabric assembly of claim 93 wherein the gap width is approximately 7 mils.

96. (Previously Presented) The fabric assembly of claim 93 wherein the polymeric resin comprises epoxy resin.

97. (Previously Presented) The fabric assembly of claim 93 wherein the plurality of plates each are shaped as identical equilateral hexagons.

98. (Previously Presented) The fabric assembly of claim 97 wherein the hexagons are approximately 60 mils in diameter.

99. (Previously Presented) The fabric assembly of claim 93 wherein the wire mesh is stainless steel.

100. (Previously Presented) A fabric assembly comprising:

- a first flexible substrate having a first plurality of continuous, non-overlapping plates affixed to a top surface of the first flexible substrate;
- a second flexible substrate having a second plurality of continuous, non-overlapping plates affixed to a top surface of the second flexible substrate; and
- a third flexible substrate having a third plurality of continuous, non-overlapping plates affixed to a top surface of the third flexible substrate, wherein the flexible substrates are arranged in a stack, and wherein each plurality of plates is arrayed in a pattern such that a plurality of approximately linear gaps are defined between adjacent affixed plates, wherein each substrate is capable of movement relative to the other substrates, wherein each gap is approximately uniform in width in the range of about 5 mils to 20 mils, and wherein each plate has an approximately uniform thickness in the range of 5 to 20 mils.

101. (Previously Presented) The fabric assembly of claim 100 wherein each plate is an equilateral hexagon.

102. (Previously Presented) The fabric assembly of claim 101 wherein each equilateral hexagon is made of polymeric resin.

103. (Previously Presented) The fabric assembly of claim 102 wherein each equilateral hexagon has a diameter in the range of about 60 to 80 mils.

104. (Previously Presented) A fabric assembly comprising:

- a first flexible substrate having a first plurality of continuous, non-overlapping plates affixed to a top surface of the first flexible substrate;
- a second flexible substrate having a second plurality of continuous, non-overlapping plates affixed to a top surface of the second flexible substrate; and
- a third flexible substrate having a third plurality of continuous, non-overlapping plates affixed to a top surface of the third flexible substrate, wherein the flexible substrates are arranged in a stack, and wherein each plurality of plates is arrayed in a pattern such that a plurality of gaps are defined between adjacent affixed plates, wherein each plate is an equilateral hexagon made of polymeric resin, wherein each plurality of gaps is approximately uniform in width in the range of about 5 mils to 20 mils, and wherein each equilateral hexagon has an approximately uniform thickness in the range of about 5 mils to 20 mils, and wherein one of the pluralities of plates have a larger gap width and plate diameter than the other two pluralities of plates.

105. (Previously Presented) The fabric assembly of claim 104

wherein the other two pluralities of plates each have a plate diameter in a range of 60 to 80 mils.

106. (Previously presented) A fabric assembly comprising:

- a first flexible substrate having a first plurality of plates affixed to a top surface of the first flexible substrate; and

- a second flexible substrate having a second plurality of plates affixed to a bottom surface of the second flexible substrate, wherein the first and second flexible substrates are arranged in a stack, the first and second pluralities of plates opposite facing, wherein each plurality of plates is arrayed in a pattern such that a plurality of approximately linear gaps are defined between adjacent affixed plates, each plate being continuous and non-overlapping, and wherein each gap is approximately uniform in width in the range of about 5 mils to 20 mils.

107. (Previously Presented) The fabric assembly of claim 106 further comprising a third flexible substrate between the first and second flexible substrates.

108. (Previously Presented) The fabric assembly of claim 107 wherein the third flexible substrate comprises a woven fabric.

109. (Previously Presented) The fabric assembly of claim 108 wherein the first and second flexible substrates comprise a woven material and the first and second pluralities of plates comprise a polymeric resin.

110. (Previously Presented) The fabric assembly of claim 109

wherein the third flexible substrate comprises nylon.

111. (Previously Presented) The fabric assembly of claim 110 wherein each plate is an equilateral hexagon having a diameter equal or greater than 80 mils, the diameter selected to maintain flexibility and puncture-resistance of the fabric assembly.

112. (Cancelled)

113. (new) The fabric assembly of claim 104, wherein at least one of the substrates comprises polyester.

114. (new) The fabric assembly of claim 104, wherein at least one of the substrates comprises nylon.

115. (new) The fabric assembly of claim 104, wherein at least one of the pluralities of plates comprises epoxy resin.